- Member, Risk Assessment Task Force, Society of Toxicology. 1999-2002.
- Reviewer, Final Study Report for National Toxicology Program, "Developmental toxicity evaluation for silver acetate administered by gavage to Sprague-Dawley (CD) rats on gestational days 6 through 19." 2002.
- Advisor, postdoctoral and undergraduate students, 2003-present.
- Member, Risk Assessment Forum PPAR Committee, Project on PPAR-mediated Hepatocarcinogenesis in Rodents and Relevance for Human Health Risk Assessments, EPA. 2005-present.
- Member, National Health and Environmental Effects Research Laboratory Technical Qualifications Board, EPA. 2004-2007.
- Member, EPA Genomics Task Force Training Workgroup. 2004-present.
- Team Leader, Cell Signaling Effects Team (acting), RTD, National Health and Environmental Effects Research Laboratory, EPA. 2004-2005.
- Co-chair, Human Health Research Program Project on Harmonization of Cancer and Non-Cancer Risk Assessment: Disruption of Mitogen Activated Protein Kinase (MAPK) Signaling as a Common Mode of Action for Environmental Toxicants, National Health and Environmental Effects Research Laboratory, EPA. 2001-2004.
- Organizer and Chair, Workshop on "The National Children's Study: Progress developing methods appropriate for assessing children's exposure, biomarkers, and genetic susceptibility" at the Annual Meeting of the Society of Toxicology. 2004.

Invited Lectures/Symposia

- Symposium on Assessment of the Risk to the Progeny by Complex Environmental Chemicals, Japanese National Institute of Health and the Japanese Ministry of the Environment, Tokyo, Japan, 2 presentations: The Role of the epidermal growth factor receptor pathway in response to dioxin; and Receptor-mediated pathways regulating the response to dioxin: Insights from transgenic mouse models. 2003.
- Continuing Education Course on Signaling Pathways and Tissue Interactions in Organ-System Development, Teratology Society: Morphogenesis and Differentiation. 2004.
- Course on Vertebrate Development and Teratology, University of North Carolina, Chapel Hill, NC: Angiogenesis. 2005.
- Course on Environmental Toxicology, Duke University, Durham, NC: Principles of teratology and mechanistic research in developmental toxicology. 2003.
- Course on Developmental Toxicology and Teratology, University of North Carolina, Chapel Hill, NC: The receptor pathway regulating responses to dioxin: Links with signal transduction and vasculogenesis. 2003.

Selected Publications

Abbott BD, Wolf CJ, Schmid JE, Das K, Zehr R, Helfant L, Nakayama S, Lindstrom AB, Strynar MJ, Lau C. 2007. Perfluorooctanoic acid (PFOA)-induced developmental toxicity in the mouse is dependent on expression of peroxisome proliferator activated receptor-alpha (PPAR-α). Toxicol Sci. 98:571-581. Abstract

Wolf CJ, Fenton SE, Schmid JE, Calafat AM, Kuklenyik Z, Thibodeaux JR, Das K, White SS, Lau C, Abbott BD. 2007. Developmental toxicity of perfluorooctanoic

acid (PFOA) after cross foster and restricted gestational exposures. Toxicol Sci. 95:462-473. Abstract

Takacs ML, Abbott BD. 2007. Activation of mouse and human peroxisome proliferator-activated receptors (PPAR-alpha, beta/delta, gamma) by perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). Toxicol Sci. 95:108-117. Abstract

Abbott BD, Rosen MB, Held G. 2006. Cellular, biochemical and molecular techniques in developmental toxicology. In: *Developmental and Reproductive Toxicology: A Practical Approach*. Ed.: R. Hood, CRC Press, Boca Raton, FL. pp. 599-620.

Abbott BD, Buckalew AR, Leffler KE. 2005. Effects of epidermal growth factor (EGF), transforming growth factor-alpha (TGF-alpha), and 2,3,7,8-tetrachlorodibenzo-p-dioxin on fusion of embryonic palates in serum-free organ culture using wild-type, EGF knockout, and TGF-alpha knockout mouse strains. Birth Defects Res A Clin Mol Teratol. 73:447-54. Abstract

Abbott BD, Best DS, Narotsky MG. 2005. Teratogenic effects of retinoic acid are modulated in mice lacking expression of epidermal growth factor and transforming growth factor-alpha. Birth Defects Res A Clin Mol Teratol. 73:204-17. Abstract

Goldman JM, Murr AS, Buckalew AR, Schmid JE, Abbott BD. 2004. Methoxychlor-induced alterations in the histological expression of angiogenic factors in pituitary and uterus. J Mol Histol. 35:363-75. Abstract

Abbott BD, Lin TM, Rasmussen NT, Albrecht RM, Schmid JE, Peterson RE. 2003. Lack of expression of EGF and TGF-alpha in the fetal mouse alters formation of prostatic epithelial buds and influences the response to TCDD. Toxicol Sci. 76:427-36. Abstract

Abbott BD, Buckalew AR, DeVito MJ, Ross D, Bryant PL, Schmid JE. 2003. EGF and TGF-alpha expression influence the developmental toxicity of TCDD: Dose response and AHR phenotype in EGF, TGF-alpha, and EGF + TGF-alpha knockout mice. Toxicol Sci. 71:84-95. Abstract

Abbott BD. 2003. Organ culture of mid-facial tissue & secondary palate. In: *Current Protocols in Toxicology*. Supplement 16, Chapter 13, Unit 6. Eds.: M.D. Maines, L.G. Costa, E. Hodgson and D.J. Reed, John Wiley & Sons, Inc., New York, NY. pp. 13.6.1-13.6.11.

Hurst CH, Abbott B, Schmid JE, Birnbaum LS. 2002. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) disrupts early morphogenetic events that form the lower reproductive tract in female rat fetuses. Toxicol Sci. 65:87-98. Abstract

Abbott BD. 2002. Experimental models for the study of oral clefts. In: *Cleft Lip and Palate: From Origin to Treatment*. Chapter 15. Ed.: D.F. Wyszynski, Oxford University Press, Cary, NC. pp. 193-202.